

(3/11/02)

BACKGROUND OF INVENTION

Compost Tea Percolator allows a grower to leach composted organic matter, extracting the nutrients and microbes that exist in the compost into a liquid solution. These microbes are then cultured and increase beneficial microbes and their by-products. This solution can be injected into an irrigation system or sprayed on with a conventional sprayer. The Compost Tea Percolator uses air powered water circulation to extract nutrients and microorganisms from the compost. These beneficial microbes are then cultured, by the use of air powered water circulation, to increase the microbial population and their by-products.

Compost Tea Percolator uses air to power water circulation for extraction and culturing of the compost tea, with the advantage of minimal mechanical damage to microbes in the solution.

The **Compost Tea Percolator** is an apparatus that allows a grower to leach composted organic matter. The leached solution from the compost contains microorganism and nutrients that can be cultured in the reservoir tank. This is done by adding certain nutrients to the culture tank solution (i.e. sugar) to increase the microbial population. The compost is the source of beneficial microbes and the Compost Tea Percolator extracts, collects, and cultures compost tea. This tea contains and extracts the desired beneficial organisms and their by-products.

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SUMMARY OF THE INVENTION

The present invention provides a tank of aerobic water that circulates and aerifies the solution using a compressed air powered percolator tube. The percolator tube gently bubbles aerobic water over a basket of composted organic material, leaching the nutrients and microorganisms from the compost into the solution in the tank below. This aerobic solution is called compost tea.

The present invention provides an efficient, usable system for producing a low cost compost tea from organic matter. At present, there is no system known to this inventor that can produce organic tea with a non-mechanical, air powered circulation system, in the quantity needed to have an impact on present methods.

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DESCRIPTION

Field of Invention:

This invention relates to the use of compost tea. Compost tea is a solution being used to condition soil for healthy growth of plants.

Compost tea has been recognized as a product that can reduce or eliminate the use of pesticides and synthetic fertilizers.

The positive values of compost tea have been established through University studies and practical experience.

The Compost Tea Percolator is an apparatus to culture compost tea from composted organic matter to be applied to plants and their soils to provide nutrients and desirable microorganisms.

The Compost Tea Percolator provides an air powered method of extracting compost tea from solid compost into a liquid, sprayable form.

Detailed Description of the Invention:

The apparatus used in the present invention for producing compost tea comprises:

1. A reservoir/collection tank,
2. A percolator tube in the tank to circulate solution over,
3. A perforated basket containing compost.

The percolator tube bubbles water from inside the tank over the perforated basket containing the compost. This aerified water leaches through the compost, carrying with it nutrients and

microorganisms from the compost into the solution in the tank below.

This process of percolation creates a circulation of water up the tube, over and through the perforated basket and compost, and back into the reservoir tank, creating an aerobic compost tea solution.